

FIG. 1
PRIOR ART

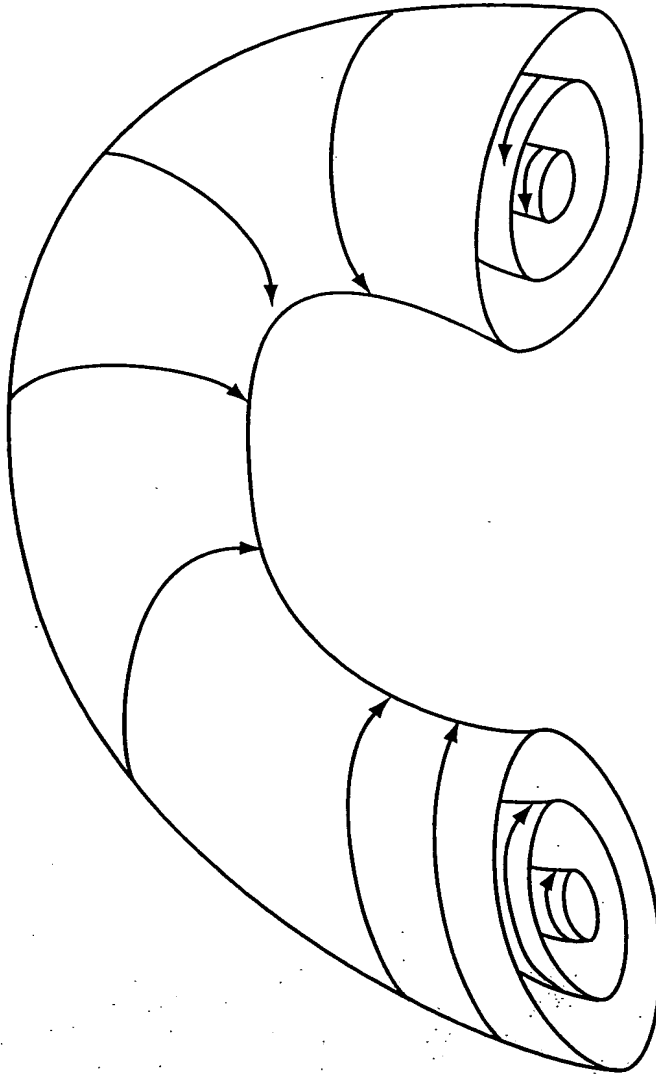


FIG. 2
PRIOR ART

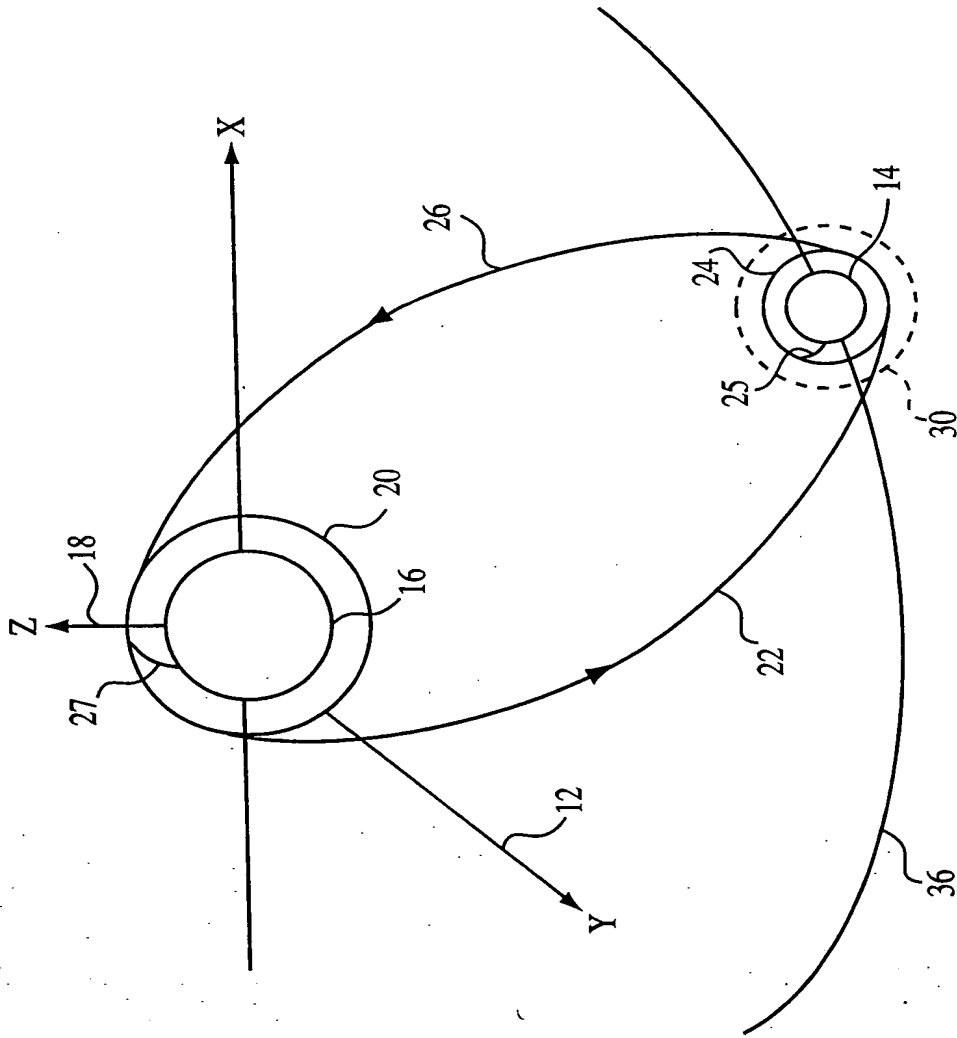


FIG. 3
PRIOR ART

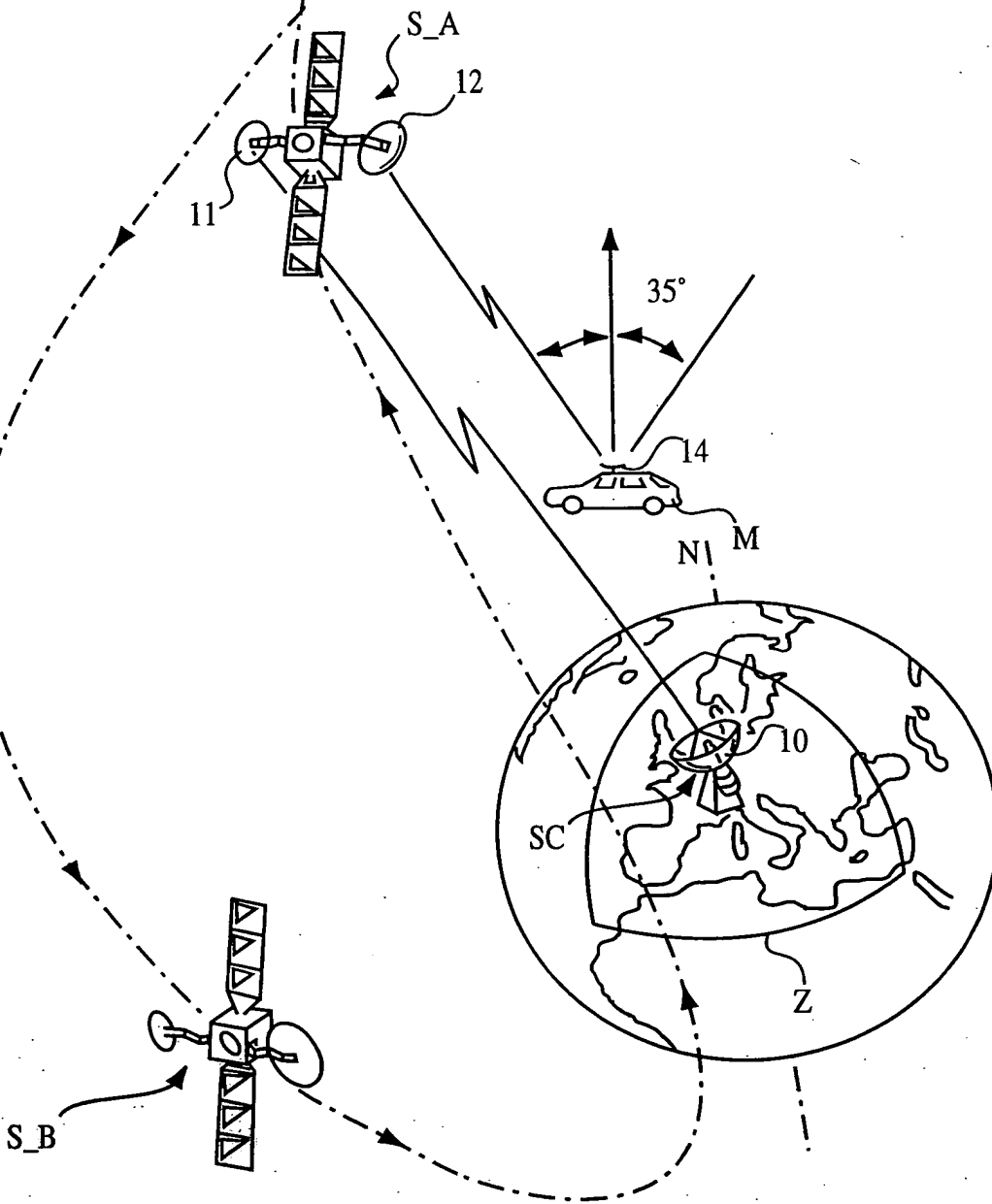


FIG. 5
PRIOR ART

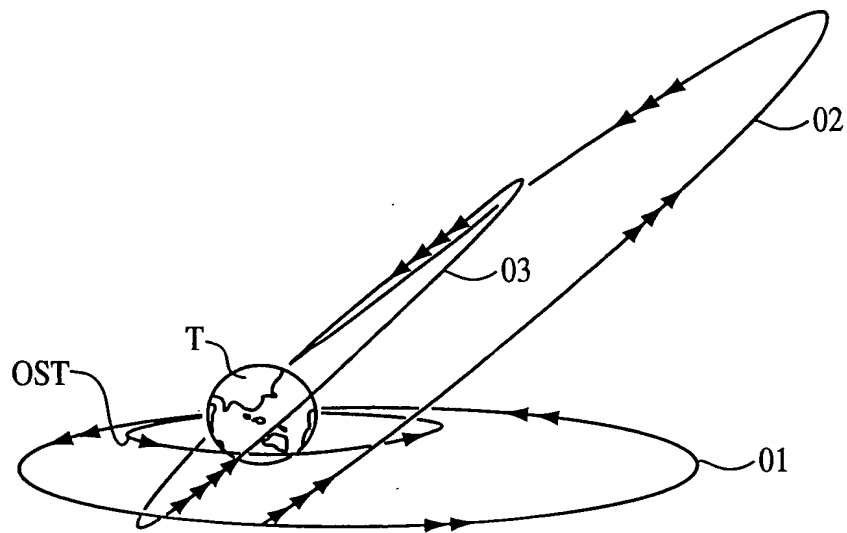


FIG. 6
PRIOR ART

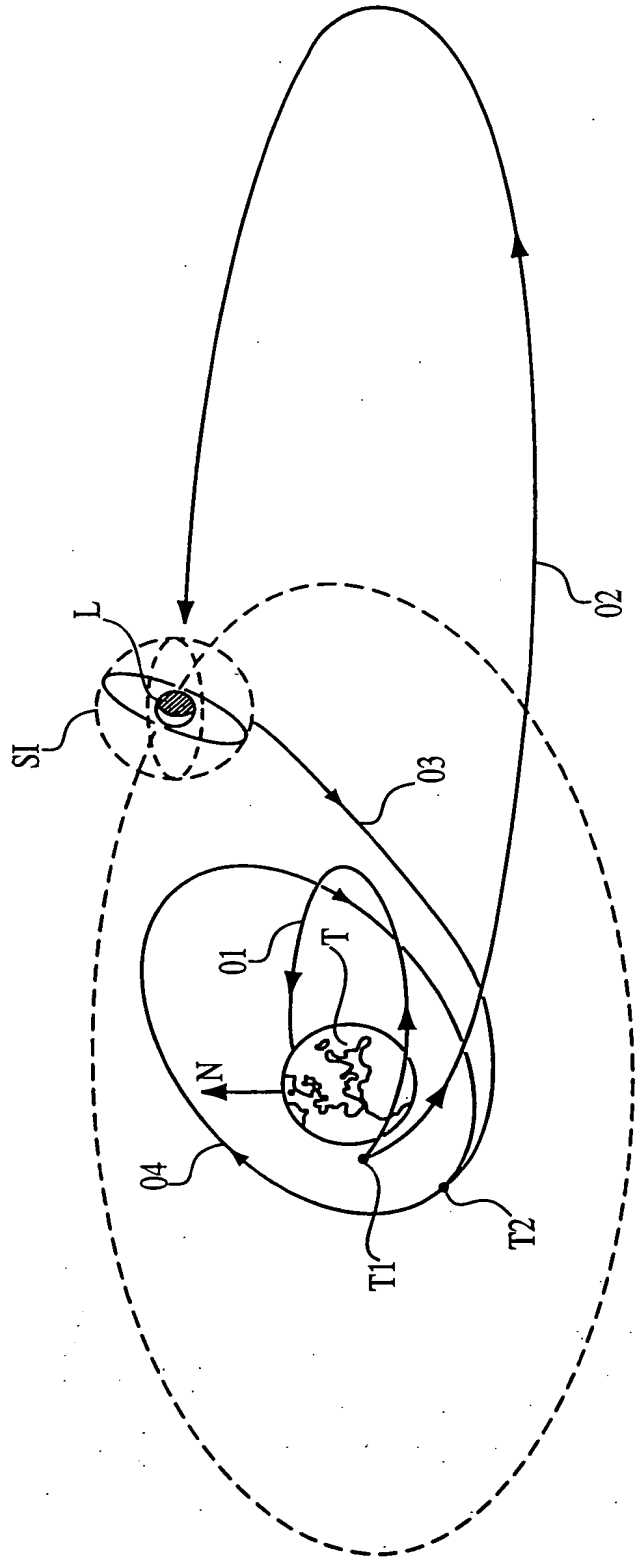


FIG. 7
PRIOR ART

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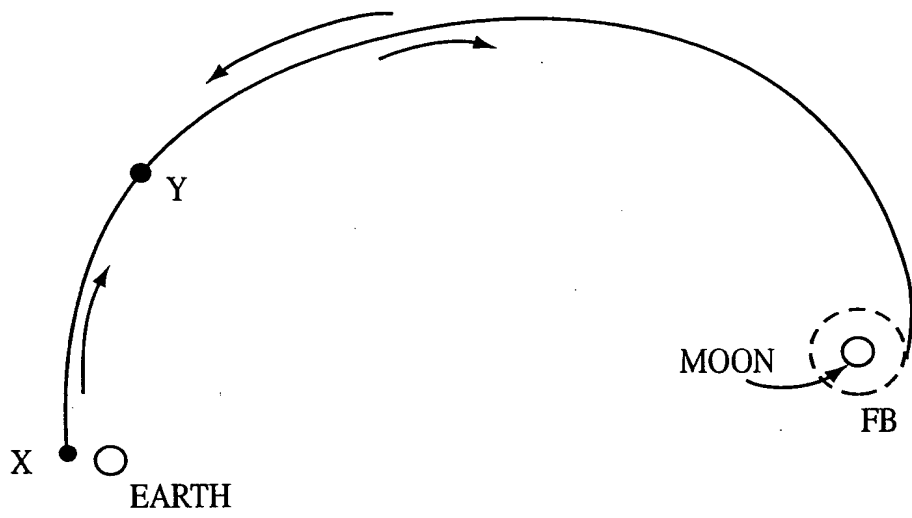


FIG. 8

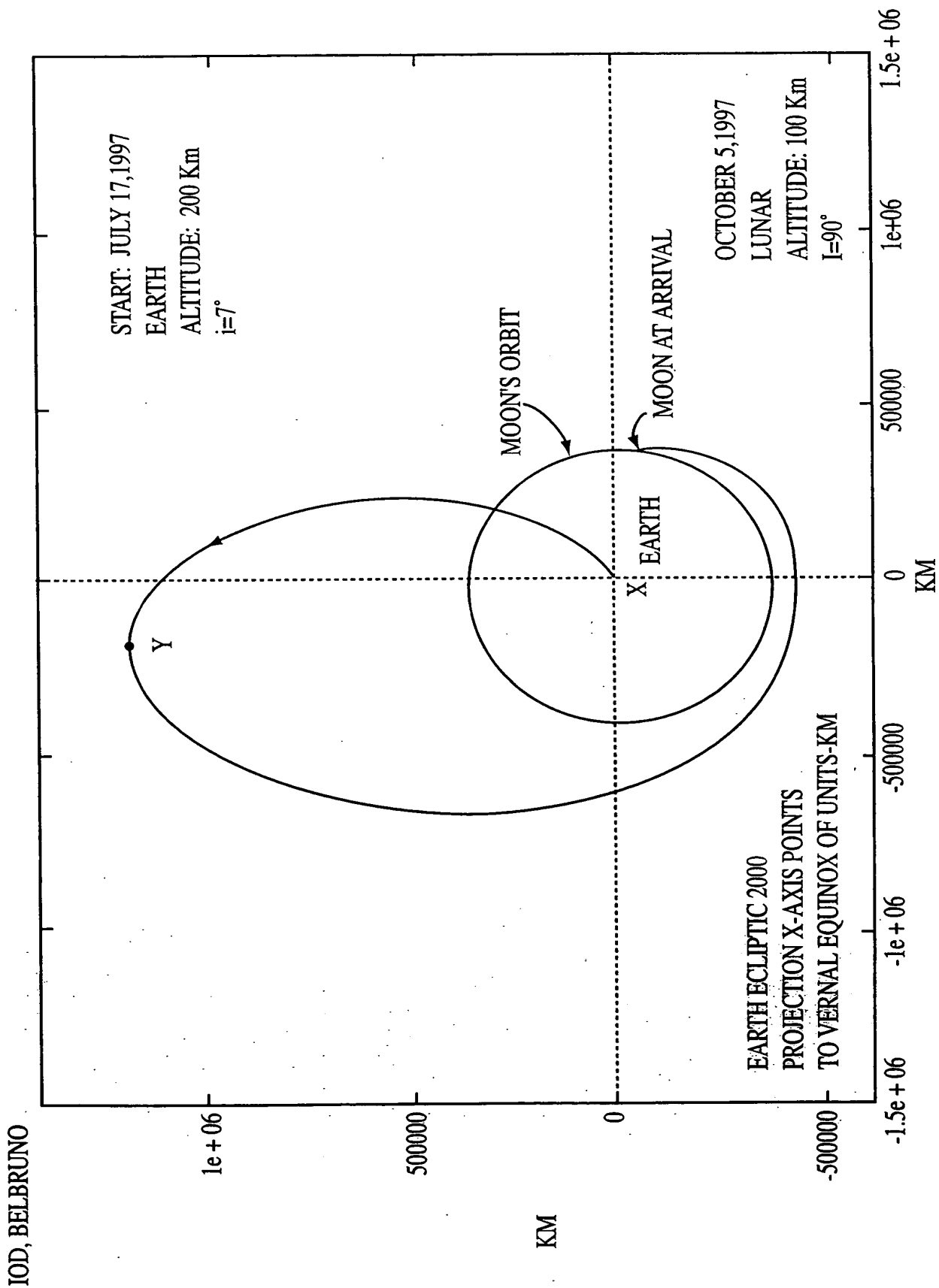


FIG. 9

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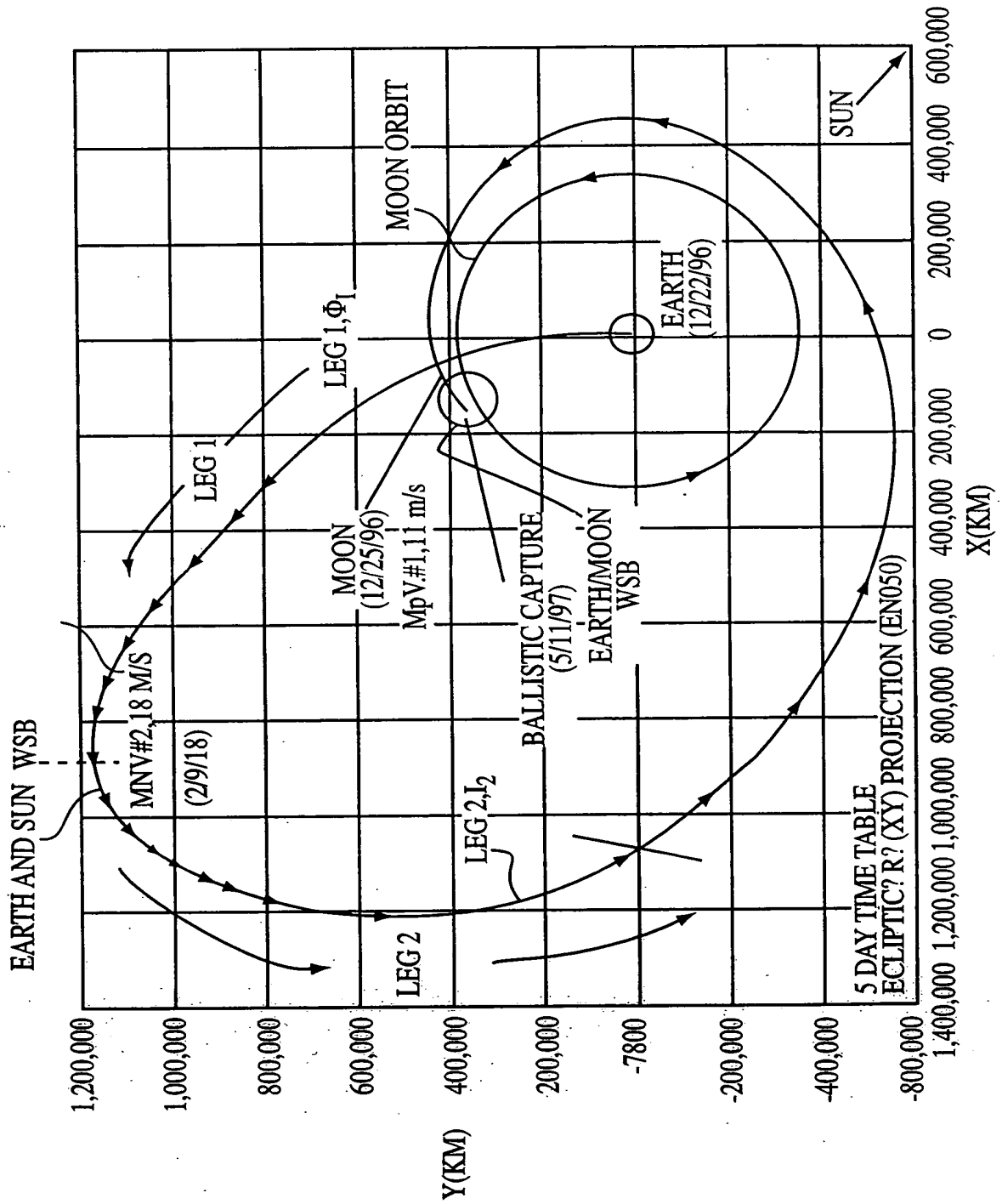


FIG. 10

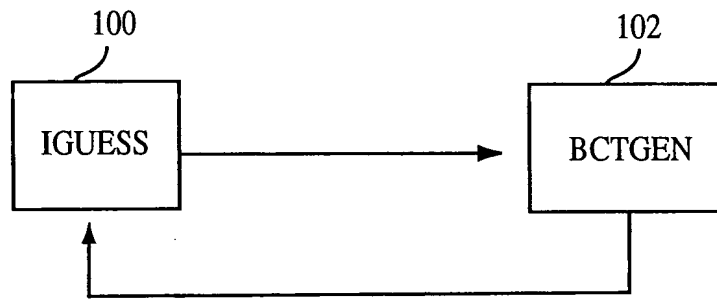


FIG. 11

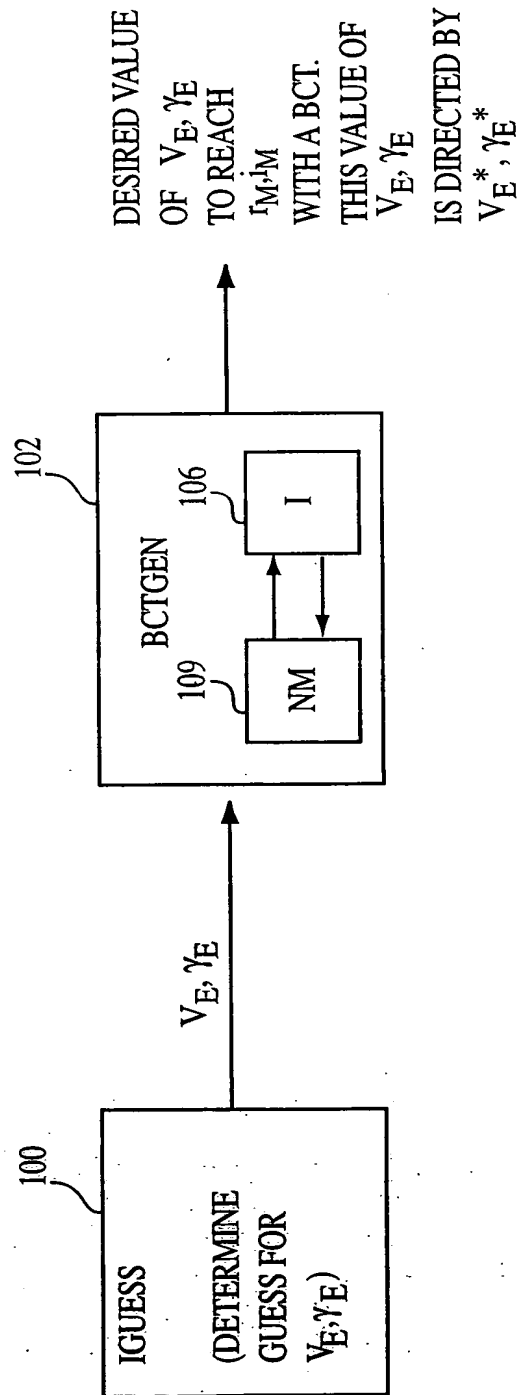


FIG. 11 A

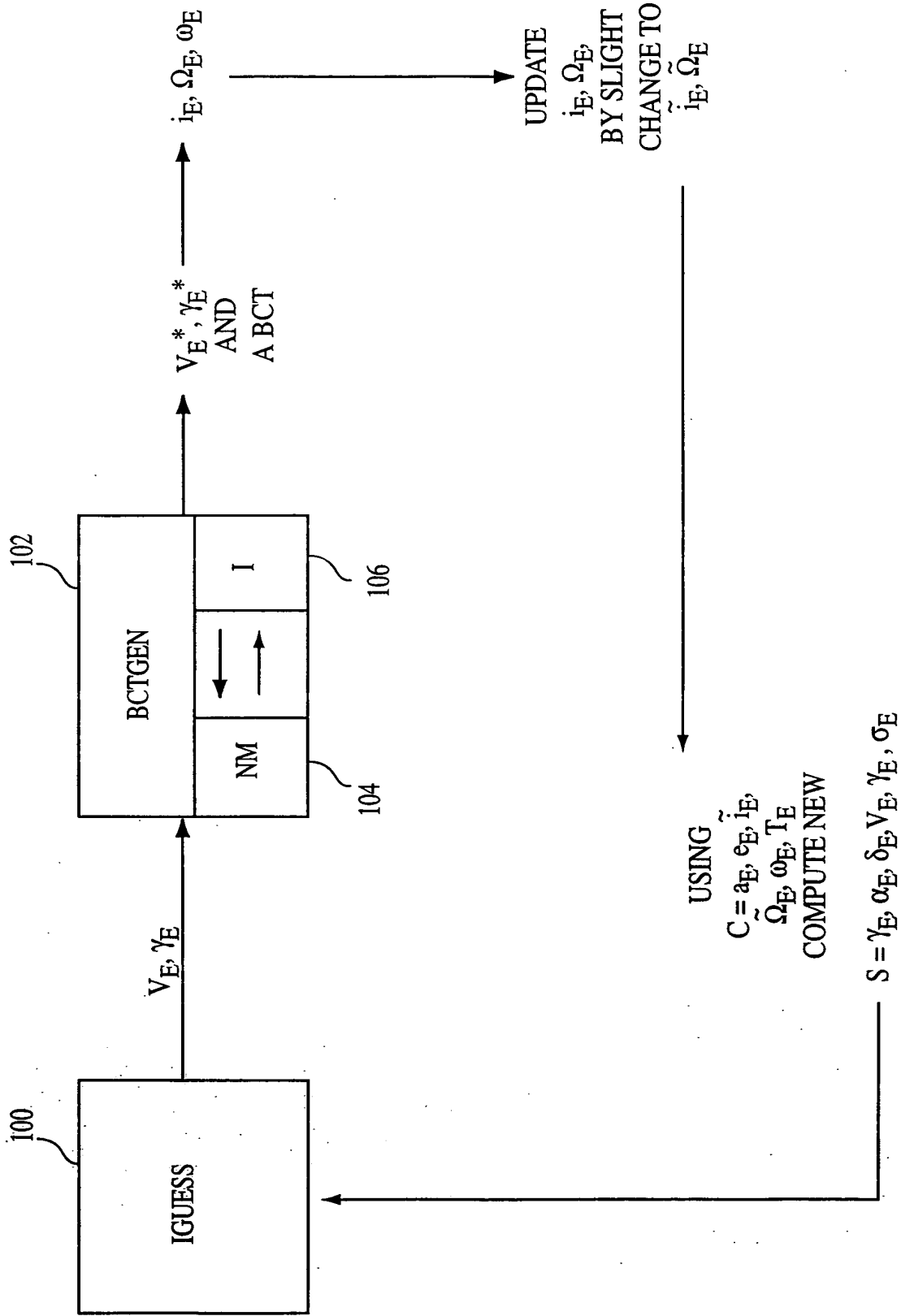


FIG. 11B

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CURRENT AND PROJECTED UNMANNED LUNAR MISSIONS

DATE	NO. LUNAR MISSIONS	TRANSFER	MISSION NAME	PURPOSE	COUNTRY	MASS (KG)	COST
1991	1	BCT	HITEN	RS	JAPAN	200	100M
92	0						
93	1	H	CLEMENTINE	RS	US	200	50M
94	0						
95	0						
96	0						
97	1	H	LUNAR PROSPECTOR	RS	US	200	40M
98	1	BCT	LUNAR A	RS	JAPAN	2000	400M
99	1	BCT	BLUE MOON	RS	US	50	10M
2000	2		CLEMENTINE2	RS(H20)	US	200	40M
1	2		————	RS(H20)	US	400	80M
				RS		400	80M
				RS		400	80M
2	2			RS		400	80M
				RS		400	80M
3	2			RS		600	120M
				RS		600	120M
4	2			RS		600	120M
				RS		600	120M
5	2			RS		600	120M
				RS		600	120M
6	2			RS		600	120M
				RS		600	120M
7	2			RS		600	120M
				RS		600	120M
8	2			LB		22,500	4.5B
9	2			LB		22,500	4.5B
10	4			S		400	80M
11	4			S		400	80M
12	4			S		400	80M
13	4			S		400	80M
14	6			RS, S		600	120M

TOTAL 11.608 B

RULE - 200 KG TO THE MOON EQUIVALENT TO 40 M.

H=HOHMANN, BCT = BALLISTIC CAPTURE TRANSFER

RS= ROBOTIC SCIENCE, LB = LUNAR BASE, C = COMMERCIAL, S = SUPPLIES

LB = 1 HABITAT (40 TONS), 1 H2O CONVERTER (4 TONS), 1 DISH ANTENNAE (.5 TONS),

M = MILLION, B=BILLION

1 ROVER, SUPPLIES (.5TONS)

FIG. 12

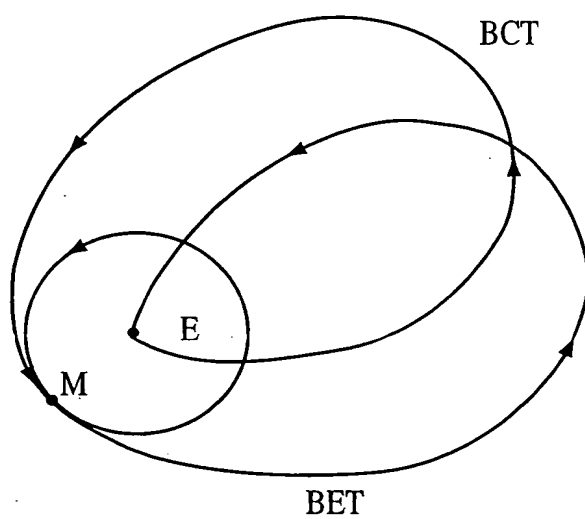


FIG. 13

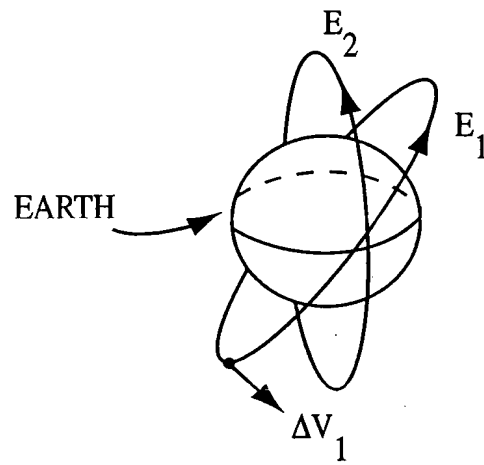


FIG. 14

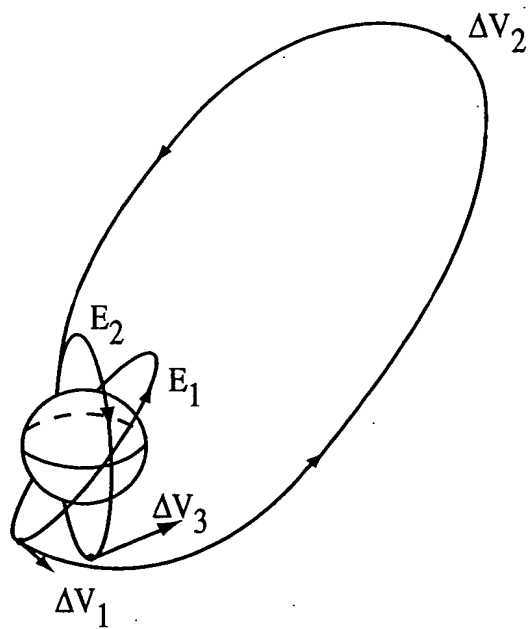


FIG. 15

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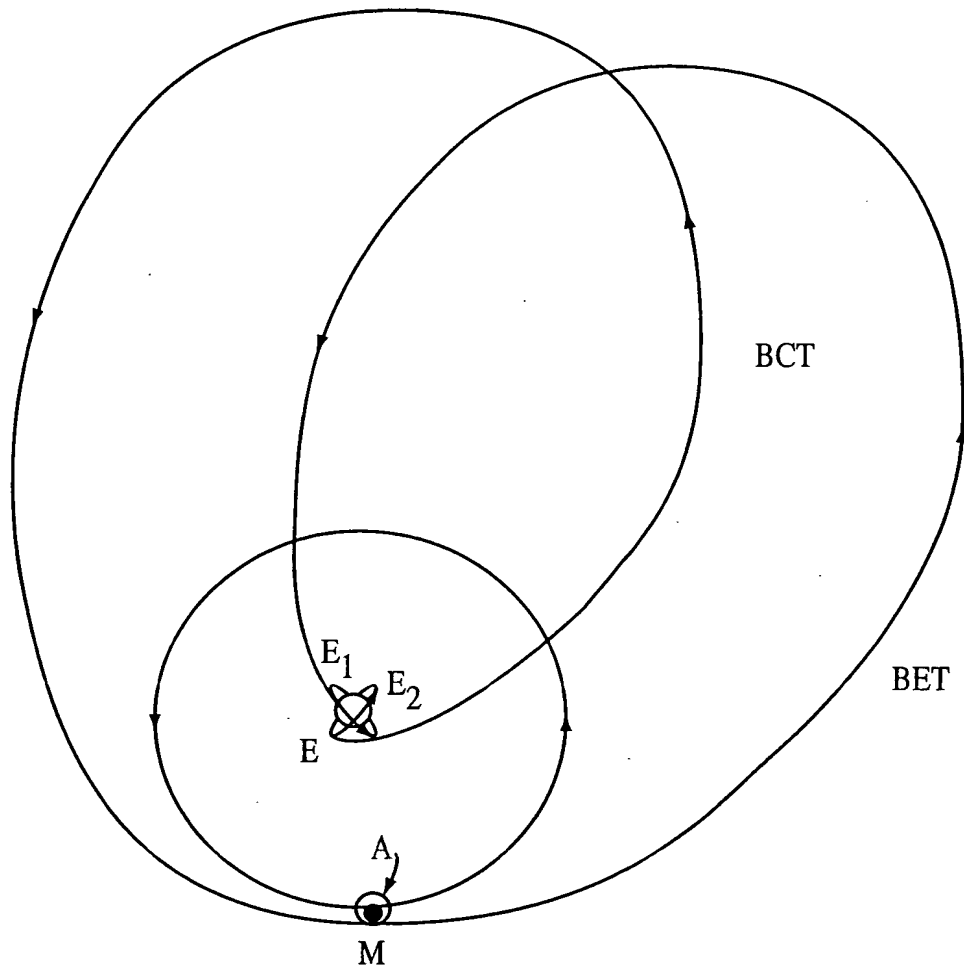


FIG. 16A

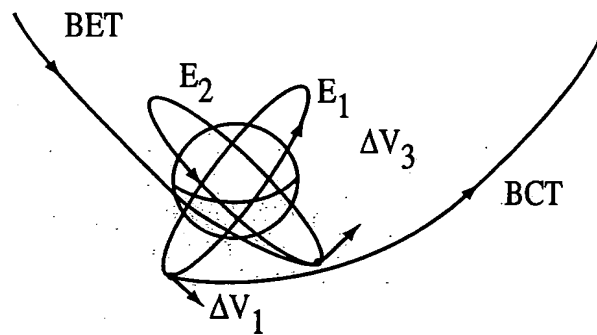


FIG. 16B

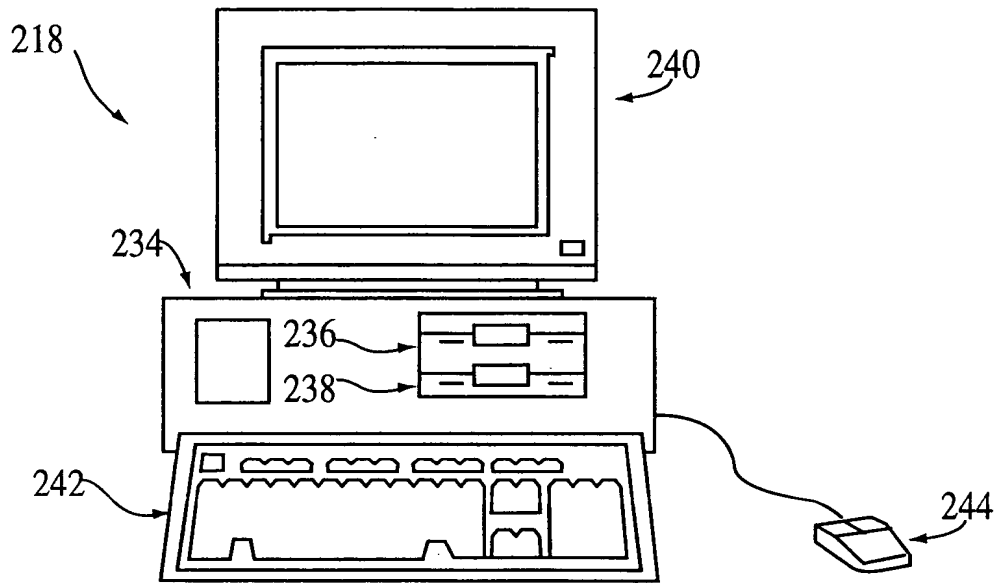


FIG. 17

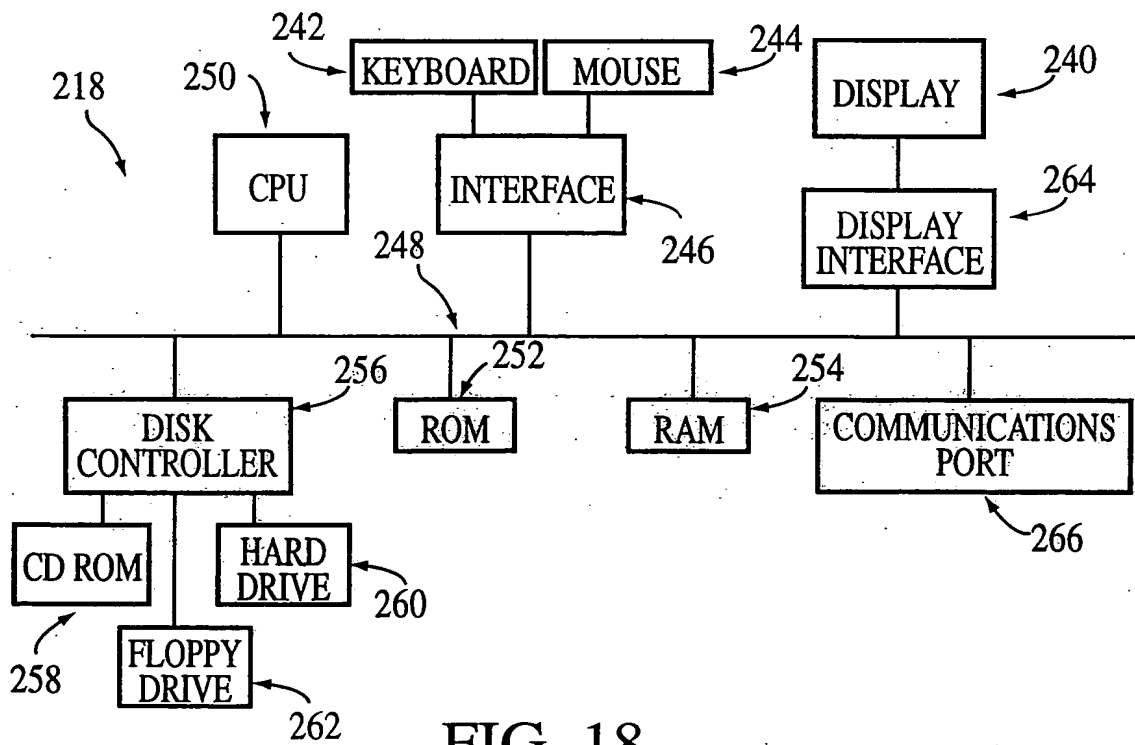


FIG. 18

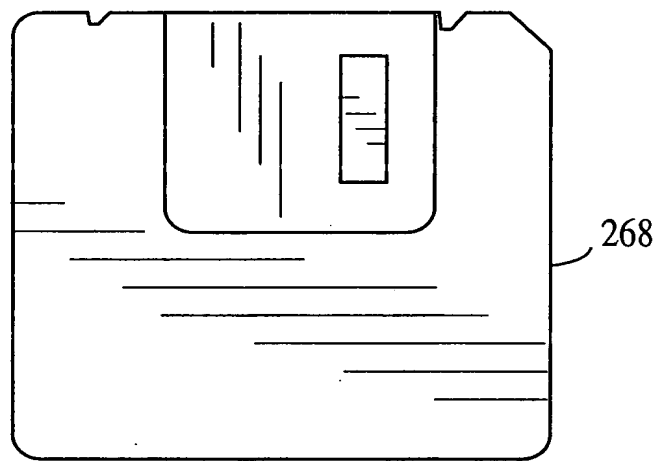


FIG.19

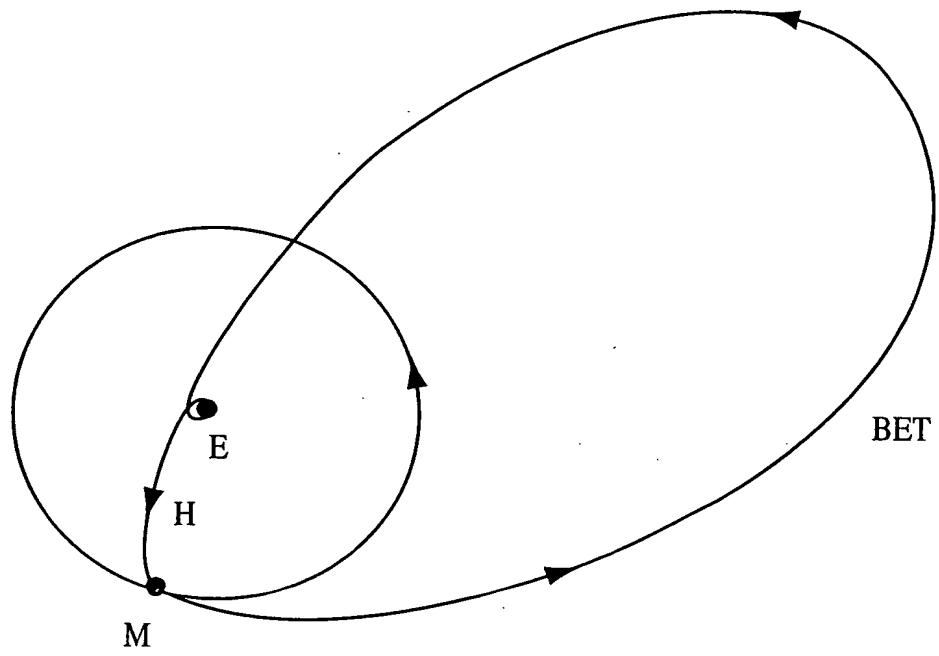


FIG. 20

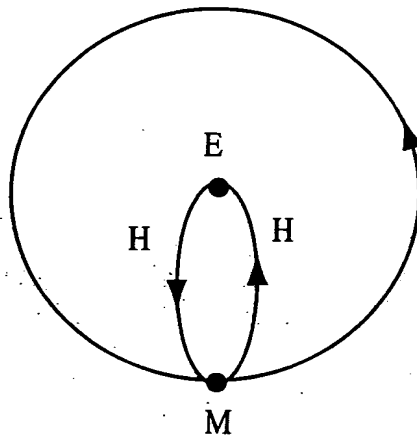


FIG. 21